

CLAIM LISTING:

1 Claims 1-6. (Canceled)

1 7. (Previously presented) A method allowing a client application running on
2 a client machine linked to a client network to establish communication, with
3 a server application hosted in a server machine linked to a server network, in
4 order to exchange messages with the server application, said messages
5 passing between the client network and the server network through a
6 network layer of a gateway machine, the method comprising:

7 A) receiving a request from the client application to establish
8 communication at a first security level of encryption to a first port on the
9 server machine;

10 B) creating a first port in the gateway machine;

11 C) creating one or more first created processes on the gateway machine;

12 D) establishing a first connection from the client application to the first
13 port on the gateway machine, the first connection connecting the client
14 machine to the gateway machine for the exchange of messages at the first
15 security level of encryption;

16 E) creating a second port in the gateway machine;

17 F) establishing a second connection from the second port of the gateway
18 machine to the first port of the server machine, the second connection to
19 be used to exchange messages at a second security level of encryption
20 which is reduced from the first security level of encryption; and,

21 G) rerouting through the gateway machine to the second port of the
22 gateway machine messages sent from the client network and addressed to
23 the first port of the server machine;

24 H) routing through the gateway machine, to the first port of the gateway
25 machine, messages received by the gateway machine that are addressed
26 to the client application on the client machine; and,
27 I) the first created processes on the gateway machine handling security
28 processing at the first security level of encryption for said messages sent
29 and said messages received on the first port of the gateway machine,
30 thereby removing from the server machine, security processing at the
31 first security level of encryption for these messages.

1 Claim 8. (Canceled)

1 Claim 9. (Canceled)

1 10. (Previously presented) A method according to claim 7, wherein steps D,
2 E, and F are executed automatically by the first created processes of the
3 gateway machine, and wherein said first created processes generates one or
4 more second created processes that execute steps G and H.

1 11. (Canceled).

1 Claims 12-13. (Canceled)

1 14. (Previously presented) A method for allowing a client application to
2 establish, in a client network, a first connection at a first security level of
3 encryption with a first port of a server application hosted in a server machine
4 linked to a server network, in order to send messages addressed to the server
5 machine, said messages passing from the client network to the server
6 network through a network layer of a gateway machine, the method
7 comprising:
8 generating, in the gateway machine, a processing thread which establishes
9 said first connection;
10 activating, in the gateway machine, a secure application proxy that performs
11 security processing at the first security level of encryption and that reroutes
12 the messages addressed to the first port of the server application away from
13 the first connection; and,
14 establishing at a second security level of encryption, the second security
15 level of encryption lower than the first security level of encryption,
16 a second connection between a second port of the server application and the
17 gateway machine, said second port being configured to receive at least one
18 of the messages at the second security level of encryption from the gateway
19 machine via said second connection,
20 said generating of the processing thread being performed in response to
21 detection of a request from the client application addressed to the first port
22 of the server application to establish said first connection; and
23 said second connection being unknown to said client application.

1 Claims 15-19 (Canceled)

1 20. (Previously presented) A method according to claim 7, further
2 comprising deleting, by ordering the network layer of the gateway machine,
3 messages sent from the client network to a port other than the first port
4 located in the server machine .

1 21. (Canceled)

1 22. (Previously presented) A method as claimed in claim 14, wherein the
2 rerouting of the messages addressed to the first port of the server application
3 is done in a way that is transparent to the client application.

1 23. (Previously presented) A method as claimed in claim 7, wherein the
2 rerouting of the messages addressed to the first port of the server application
3 is done in a way that is transparent to the client application.

1 24. (Previously presented) The method according to claim 7, wherein the
2 second security level of encryption provides for exchange of messages
3 which are unencrypted.

1 25. (Previously presented) The method according to claim 7, wherein the
2 second security level of encryption is at a greater security level than a
3 security level of no encryption.